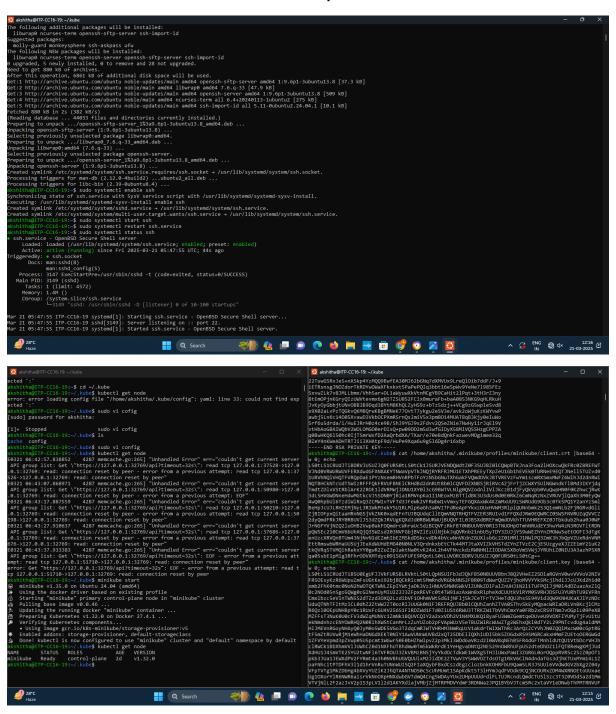
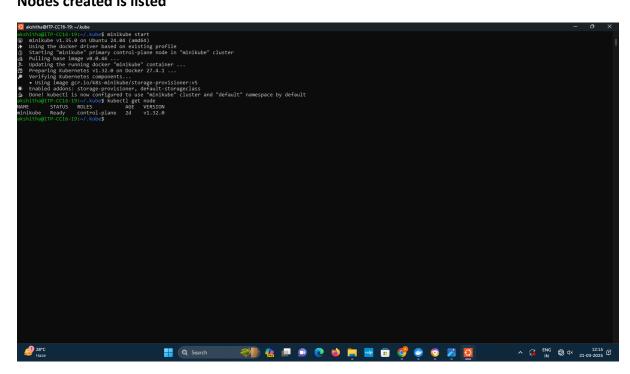
DEVOPS DAY-05

JAVA-APPLICATION DEPLOYMENT IN MINIKUBE

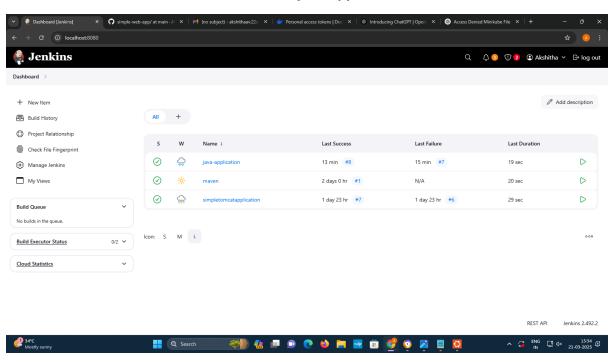
COMMANDS EXECUTED TO EDIT CONFIG FILE IN /.KUBE



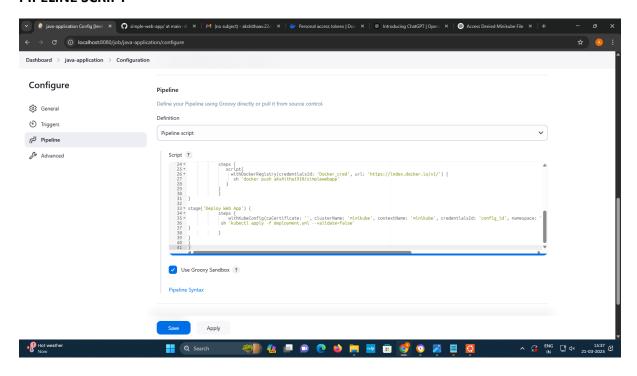
Nodes created is listed



CREATION OF A PIPELINE PROJECT NAMED "java-application"



PIPELINE SCRIPT



PIPELINE SCRIPT CODE

```
pipeline {
  agent any
  stages {
    stage('scm') {
      steps {
    git branch: 'main', url: 'https://github.com/Akshi1910/simple-web-app.git'
      }
    }
    stage('build') {
      steps {
        sh "mvn clean"
        sh "mvn install"
}
}
stage('build to images') {
      steps {
        script{
          sh 'docker build -t akshitha1910/simplewebapp .'
        }
  }
```

```
}
stage('push to hub') {
      steps {
        script{
         withDockerRegistry(credentialsId: 'Docker_cred', url: 'https://index.docker.io/v1/') {
          sh 'docker push akshitha1910/simplewebapp'
        }
      }
      }
}
stage('Deploy Web App') {
      steps {
         withKubeConfig(caCertificate: ", clusterName: 'minikube', contextName: 'minikube',
credentialsId: 'config_id', namespace: '', restrictKubeConfigAccess: false, serverUrl:
'https://192.168.39.226:8443') {
       sh 'kubectl apply -f deployment.yml --validate=false'
}
      }
}
}
}
DEPLOYMENT FILE
```

deployment.yml

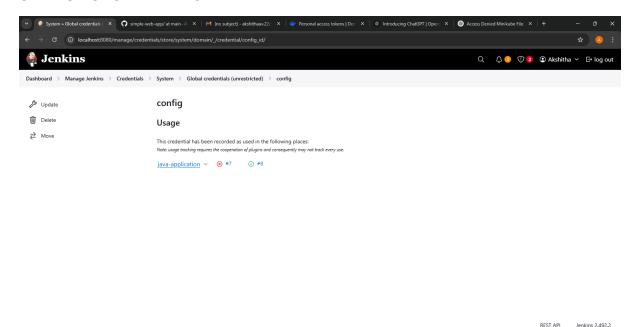
apiVersion: apps/v1
kind: Deployment
metadata:
name: webnginx2
labels:
name: webnginx2
spec:
replicas: 1
selector:
matchLabels:
apptype: web-backend

```
strategy:
  type: RollingUpdate
 template:
  metadata:
   labels:
    apptype: web-backend
  spec:
   containers:
   - name: webnginx2
    image: akshitha1910/simplewebapp:latest
    ports:
    - containerPort: 7070
apiVersion: v1
kind: Service
metadata:
 name: my-service
 labels:
  app: my-service
  type: backend-app
spec:
 type: NodePort
 ports:
 - targetPort: 8080
  port: 7070
  nodePort: 30002
 selector:
  apptype: web-backend
```

deployment.yml file should be present in the project:

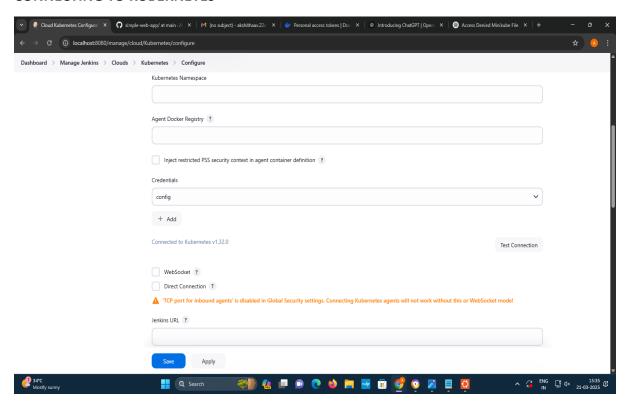
gitlink: https://github.com/Akshi1910/simple-web-app

CREATION OF CREDENTIALS

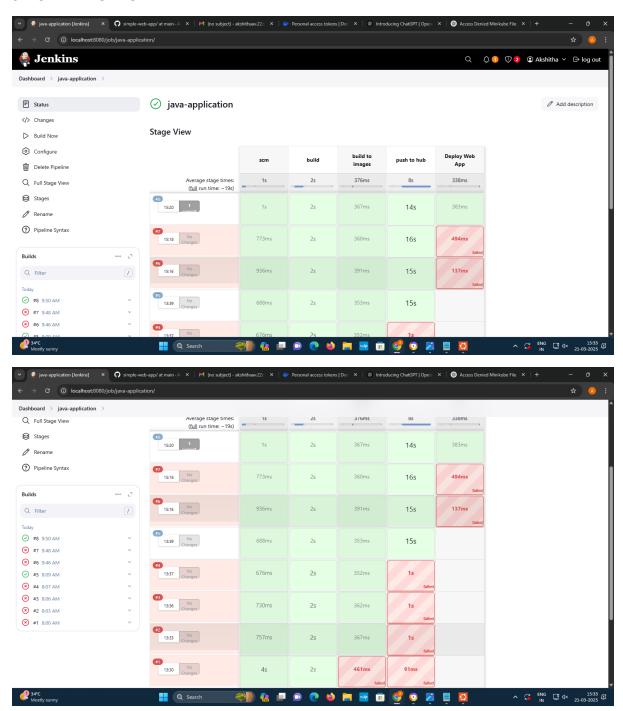


^ ☐ ENG ☐ □ □ □ 15:35 ☐

CONNECTING TO KUBERNETES



STAGE VIEW OF BUILD



BUILD SUCCESS

